

WHAT IS CLAIMED IS:

1. A power supply terminal for supplying power to a back wiring board, said power supply terminal comprising:

a first terminal member having a plurality of first slits and a pair of first engaging portions;

a plurality of press fit terminals each in substantially a U-shape inserted into said first slits of said first terminal member and having a plurality of press fit pins formed at an end portion of the press fit terminal;

fixing means for fixing said press fit terminals to said first terminal member;

a second terminal member having a plurality of second slits into which said press fit terminals are inserted, a plurality of third slits, and a pair of second engaging portions, said press fit terminals being partially inserted into said second slits and the second terminal member being attached to said first terminal member by engaging said second engaging portions with said first engaging portions; and

an electronic part having a pair of plate springs each including an elastic deforming part and joined to both end portions of the electronic part, said electronic part being attached to said second terminal member by

inserting said plate springs into said third slits, and the elastic deforming part of each of said plate springs being pressure-contacted with said adjacent press fit terminals when said second terminal member is attached to said first terminal member.

2. A power supply terminal as claimed in claim 1, wherein said first terminal member has a plurality of screw holes, each of said press fit terminals has a hole formed in an intermediate portion of each said press fit terminal, and said fixing means comprises a screw screwed into each of said screw holes via said hole.

3. A power supply terminal as claimed in claim 1, wherein each of said first engaging portions comprises an engaging hole, and each of said second engaging portions comprises an engaging projection.

4. A power supply terminal as claimed in claim 2, further comprising a crimp contact fixed to said press fit terminal by said screw.

5. A power supply terminal as claimed in claim 1, wherein said second terminal member is engaged with and fixed to said first terminal member from a direction orthogonal to a direction in which said press fit terminal extends.

6. A power supply terminal as claimed in claim 1,

wherein said electronic part comprises a surface mounting type capacitor.

7. A power supply terminal for supplying power to a back wiring board, said power supply terminal comprising:

a terminal member having a plurality of slits;

a plurality of press fit terminals each in substantially a U-shape having a plurality of press fit pins formed at an end portion of the press fit terminal and a pair of indentations formed in an inner surface of the press fit terminal, said press fit terminals being inserted into said slits of said terminal member;

fixing means for fixing said press fit terminals to said terminal member; and

an electronic part having a pair of plate springs, the plate springs each having a projection facing outward and being joined to both end portions of the electronic part, said electronic part being attached to said adjacent press fit terminals by fitting said projection to each of said indentations.

8. A power supply terminal as claimed in claim 6, wherein said terminal member has a plurality of screw holes, each of said press fit terminal has a hole formed in an intermediate portion of said press fit terminal, and said fixing means comprises a screw screwed into each

of said screw holes via said hole.

9. A power supply terminal for supplying power to a back wiring board, said power supply terminal comprising:

a terminal member having a plurality of slits;

a plurality of press fit terminals each in substantially a U-shape including a pair of side walls extending substantially in parallel with each other and an intermediate wall for connecting said side walls with each other, each of said side walls having a plurality of press fit pins formed at an end of said side wall and a pair of notches, and said side walls being inserted into said slits of said terminal member;

fixing means for fixing said press fit terminals to said terminal member; and

an electronic part having a pair of metallic frames, the metallic frames each having a pair of engaging pieces and a hole and being joined to both end portions of the electronic part, said electronic part being attached to said adjacent press fit terminals when said metallic frames are inserted into said notches and each of said side walls is interposed between said pair of engaging pieces.

10. A power supply terminal as claimed in claim 9, wherein said terminal member has a plurality of screw

holes, each of said press fit terminal has a hole formed in said intermediate wall, and said fixing means comprises a screw screwed into each of said screw holes via said hole.

11. A back wiring board assembly comprising:

a back wiring board having a conductor pattern for supplying power and a plurality of through holes connected to said conductor pattern; and

a power supply terminal press-fit-mounted in said through holes of said back wiring board;
wherein said power supply terminal comprises:

a first terminal member having a plurality of first slits and a pair of first engaging portions;

a plurality of press fit terminals each in substantially a U-shape inserted into said first slits of said first terminal member and having a plurality of press fit pins formed at an end portion of the press fit terminal;

fixing means for fixing said press fit terminals to said first terminal member;

a second terminal member having a plurality of second slits into which said press fit terminals are inserted, a plurality of third slits, and a pair of second engaging portions, said press fit terminals being

partially inserted into said second slits and the second terminal member being attached to said first terminal member by engaging said second engaging portions with said first engaging portions; and

an electronic part having a pair of plate springs each including an elastic deforming part and joined to both end portions of the electronic part, said electronic part being attached to said second terminal member by inserting said plate springs into said third slits, and the elastic deforming part of each of said plate springs being pressure-contacted with said adjacent press fit terminals when said second terminal member is attached to said first terminal member.

12. A surface mounting component with conductor members, said surface mounting component comprising:

a surface mounting part having a pair of electrodes disposed on both sides of the surface mounting part; and a pair of conductor members attached to said electrodes and having elasticity to be resilient against external force in directions of both said sides by elastic force.

13. A surface mounting component with conductor members, said surface mounting component comprising:

a surface mounting part having a pair of electrodes disposed on both sides of the surface mounting part; and

a pair of conductor members having a bent-over portion and having elasticity;

wherein at least a part of a side reverse to a side facing said bent-over portion of each of said conductor members is attached to said electrode.

14. A surface mounting component with conductor members, said surface mounting component comprising:

a surface mounting part having a pair of electrodes disposed on both sides of the surface mounting part; and a pair of elastic conductor members attached to said electrodes so as to expand outward with respect to said surface mounting part.

15. A surface mounting component with conductor members as claimed in claim 14,

wherein said elastic conductor members have portions protruding in at least two directions from both said sides.

16. A power supply terminal for supplying power to a back wiring board, said power supply terminal comprising:

a first terminal member having a plurality of first slits and a pair of first engaging portions;

a press fit terminal in substantially a U-shape inserted into said first slits of said first terminal member and having a plurality of press fit pins formed at

an end portion of said press fit terminal;

fixing means for fixing said press fit terminal to said first terminal member;

a second terminal member having a pair of second engaging portions, a notch, and a second slit, said second terminal member being attached to said first terminal member by engaging said second engaging portions with said first engaging portions; and

an electronic part having a first plate spring and a second plate spring each including an elastic deforming part and joined to both end portions of said electronic part, said electronic part being fitted into said notch of said second terminal member by inserting said second plate spring into said second slit, and the elastic deforming part of said first plate spring being pressed against said press fit terminal when said second terminal member is attached to said first terminal member.

17. A back wiring board assembly comprising:

a back wiring board having a conductor pattern for supplying power and through holes connected to said conductor pattern; and

a power supply terminal press-fit-mounted in said through holes of said back wiring board;

wherein said power supply terminal includes:

a first terminal member having a plurality of first slits and a pair of first engaging portions;

a press fit terminal in substantially a U-shape inserted into said first slits of said first terminal member and having a plurality of press fit pins formed at an end portion of said press fit terminal;

fixing means for fixing said press fit terminal to said first terminal member;

a second terminal member having a pair of second engaging portions, a notch, and a second slit, said second terminal member being attached to said first terminal member by engaging said second engaging portions with said first engaging portions; and

an electronic part having a first plate spring and a second plate spring each including an elastic deforming part and joined to both end portions of said electronic part, said electronic part being fitted into said notch of said second terminal member by inserting said second plate spring into said second slit, and the elastic deforming part of said first plate spring being pressed against said press fit terminal and the elastic deforming part of said second plate spring being pressed against said conductor pattern of said back wiring board when said second terminal member is attached to said first

terminal member.

18. A back wiring board assembly as claimed in claim 17, wherein each of said first engaging portions comprises an engaging hole, and each of said second engaging portions comprises an engaging projection.

19. A back wiring board assembly as claimed in claim 17, wherein said electronic part comprises a surface mounting type capacitor.

20. A back wiring board assembly as claimed in claim 17, wherein said second terminal member is engaged with and fixed to said first terminal member from a direction orthogonal to a direction in which said press fit terminal extends.

21. A back wiring board assembly comprising:

- a back wiring board having a conductor pattern for supplying power and through holes connected to said conductor pattern; and

- a power supply terminal press-fit-mounted in said through holes of said back wiring board;

- wherein said power supply terminal includes:

- a first terminal member having a plurality of first slits, a screw hole having a bottom, and a pair of first engaging portions;

- a press fit terminal in substantially a U-shape

inserted into said first slits of said first terminal member and having a plurality of press fit pins formed at an end portion of said press fit terminal;

a screw screwed into said screw hole, for fixing said press fit terminal to said first terminal member;

a second terminal member having a pair of second engaging portions, a notch, and a pair of projections formed on wall surfaces forming said notch, said second terminal member being attached to said first terminal member by engaging said second engaging portions with said first engaging portions; and

an electronic part having a first plate spring and a second plate spring joined to both end portions of said electronic part, said electronic part being attached to said second terminal member by inserting said electronic part into said notch and pressing said projections against side walls of said electronic part, and said first plate spring being pressed against the bottom said screw hole and said second plate spring being pressed against said conductor pattern of said back wiring board when said second terminal member is attached to said first terminal member.

22. A back wiring board assembly comprising:

a back wiring board having a conductor pattern for

supplying power and through holes connected to said conductor pattern; and

a power supply terminal press-fit-mounted in said through holes of said back wiring board;

wherein said power supply terminal includes:

a terminal member having a plurality of slits and a through screw hole;

a press fit terminal in substantially a U-shape inserted into said slits of said terminal member and having a plurality of press fit pins formed at an end portion of said press fit terminal;

a screw screwed into said screw hole, for fixing said press fit terminal to said terminal member;

an electronic part having a first electrode and a second electrode at both ends of said electronic part, said electronic part being inserted into said screw hole; and

a conductive elastic member interposed between said screw and said electronic part or between said electronic part and said back wiring board, for establishing electric connection of said first electrode with said screw or electric connection of said second electrode with said conductor pattern of said back wiring board.

23. A back wiring board assembly as claimed in claim 22,

wherein said conductive elastic member comprises a coil spring.

24. A back wiring board assembly as claimed in claim 22, wherein said conductive elastic member comprises a plate spring.

25. A back wiring board assembly comprising:

- a back wiring board having a conductor pattern for supplying power and through holes connected to said conductor pattern; and

- a power supply terminal press-fit-mounted in said through holes of said back wiring board;

- wherein said power supply terminal includes:

- a terminal member having a plurality of slits and a through screw hole;

- a press fit terminal in substantially a U-shape inserted into said slits of said terminal member and having a plurality of press fit pins formed at an end portion of said press fit terminal;

- a screw screwed into said screw hole, for fixing said press fit terminal to said terminal member;

- an electronic part having a first electrode and a second electrode at both ends of said electronic part, said electronic part being inserted into said screw hole;

- a first conductive elastic member interposed

between said first electrode and said screw, for establishing electric connection of said first electrode with said screw; and

a second conductive elastic member interposed between said second electrode and said back wiring board, for establishing electric connection of said second electrode with said conductor pattern of said back wiring board.

26. A back wiring board assembly as claimed in claim 25, wherein said first conductive elastic member and said second conductive elastic member each comprise a coil spring.

27. A back wiring board assembly as claimed in claim 25, wherein said first conductive elastic member and said second conductive elastic member each comprise a plate spring.

28. A back wiring board assembly as claimed in claim 25, wherein said first conductive elastic member and said second conductive elastic member each comprise a conductive rubber.

29. A power supply terminal comprising: a first terminal member having a pair of engaging portions and accommodating at least two power terminals;

a substrate having a conductive pattern and

connected to the leading end of said power terminals; and

an electronic part electrically connected to said first terminal and said substrate by elastically deforming between said power terminals.

30. A power supply terminal as claimed in claim 29, wherein said substrate comprises a back wiring board.

31. A power supply terminal as claimed in claim 29, wherein said power terminal comprises a press fit terminal.

32. A power supply terminal as claimed in claim 29, wherein said terminal member is engaged with and fixed to said first terminal member from a direction orthogonal to a direction in which said power terminal extends.

33. A power supply terminal as claimed in claim 29, wherein said electronic part comprises a surface mounting type capacitor.